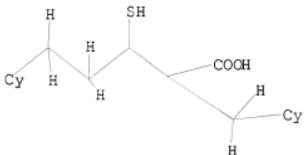


10/517,713

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:05:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 664750 TO ITERATE

94.1% PROCESSED	625577 ITERATIONS	62 ANSWERS
99.1% PROCESSED	658786 ITERATIONS	62 ANSWERS
100.0% PROCESSED	664750 ITERATIONS	62 ANSWERS
SEARCH TIME: 00.00.33		

L2 62 SEA SSS FUL L1

L3 2 L2

=> d 1-2 ibib abs hitstr

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:1006952 CAPLUS
DOCUMENT NUMBER: 140:59517
TITLE: Preparation of 2,5-disubstituted 3-mercaptopentanoic acids as carboxypeptidase U inhibitors
INVENTOR(S): Polla, Magnus
PATENT ASSIGNEE(S): AstraZeneca A.B., Swed.
SOURCE: PCT Int. Appl., 38 pp.

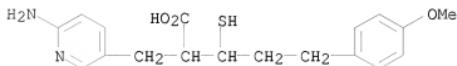
CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003106420	A1	20031224	WO 2003-SE970	20030610
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2003241260	A1	20031231	AU 2003-241260	20030610
AU 2003241260	B2	20070426		
BR 2003011384	A	20050315	BR 2003-11384	20030610
EP 1532111	A1	20050525	EP 2003-730987	20030610
EP 1532111	B1	20070808		
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CN 100415719	C	20080903		
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AT 369342	T	20070815	AT 2003-730987	20030610
ES 2289297	T3	20080201	ES 2003-730987	20030610
NO 2004005051	A	20050113	NO 2004-5051	20041119
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PRIORITY APPLN. INFO.:		SE 2002-1837	A 20020614	
		WO 2003-SE970	W 20030610	

OTHER SOURCE(S): MARPAT 140:59517

AB: The title compds. R1(CH₂)₂CH(SH)CH(CO₂H)CH₂R2 [I; R1 = (un)substituted Ph, naphthyl, pyridinyl, etc.; R2 = aminopyridinyl, aminothiazolyl, 3-azabicyclo[3.2.1]octyl] which inhibit carboxypeptidase U and thus can be used in the prevention and treatment of diseases where inhibition of carboxypeptidase U is beneficial, were prepared E.g., a 4-step synthesis of 2-[(6-aminopyridin-3-yl)methyl]-5-(1,1'-biphenyl-3-yl)-3-mercaptopentanoic acid (starting from 3-iodo-1,1'-biphenyl), was given. Biol. data was given for 13 exemplified compds. I. In further aspects, the invention relates to pharmaceutical compns. containing at least one compound I.
 IT 637300-57-3P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of 2,5-disubstituted 3-mercaptopentanoic acids as

carboxypeptidase U inhibitors)
 RN 637300-57-3 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptop-3-(4-methoxyphenyl)propyl]- (CA INDEX NAME)



IT 637300-44-8P 637300-45-9P 637300-46-0P
 637300-47-1P 637300-48-2P 637300-49-3P
 637300-50-6P 637300-51-7P 637300-52-8P
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 637300-60-8P 637300-61-9P 637300-62-0P
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 637300-66-4P 637300-67-5P 637300-68-6P
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 637300-94-8P 637300-95-9P 637300-96-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

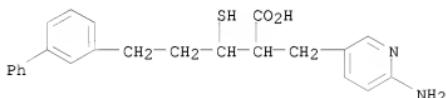
(preparation of 2,5-disubstituted 3-mercaptopentanoic acids as carboxypeptidase U inhibitors)

RN 637300-44-8 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -(3-[1,1'-biphenyl]-3-yl-1-mercaptopropyl)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

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CRN 637300-43-7

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CM 2

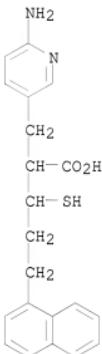
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10/923, 271

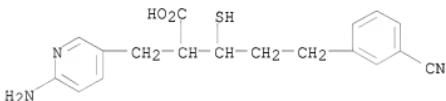
CMF C2 H F3 O2



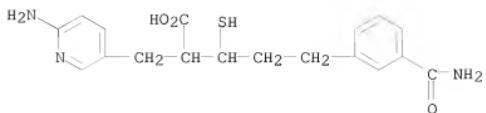
RN 637300-45-9 CAPLUS
CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-(1-naphthalenyl)propyl]- (CA INDEX NAME)



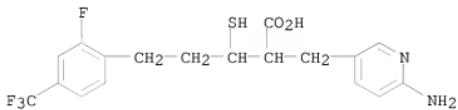
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CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(3-cyanophenyl)-1-mercaptopropyl]- (CA INDEX NAME)



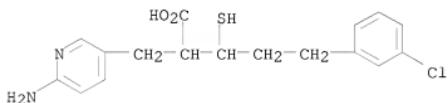
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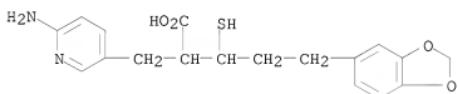
RN 637300-48-2 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[2-fluoro-4-(trifluoromethyl)phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



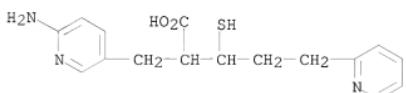
RN 637300-49-3 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(3-chlorophenyl)-1-mercaptopropyl]- (CA INDEX NAME)



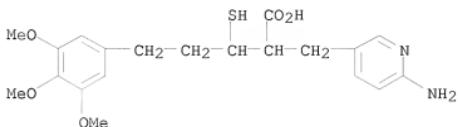
RN 637300-50-6 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(1,3-benzodioxol-5-yl)-1-mercaptopropyl]- (CA INDEX NAME)



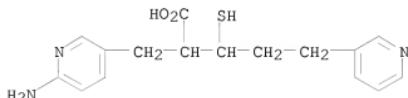
RN 637300-51-7 CAPLUS
 CN 2-Pyridinepentanoic acid, α -[(6-amino-3-pyridinyl)methyl]- β -mercaptopentanoic acid (CA INDEX NAME)



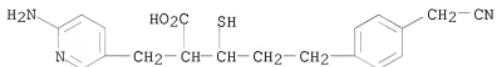
RN 637300-52-8 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-(3,4,5-trimethoxyphenyl)propyl]- (CA INDEX NAME)



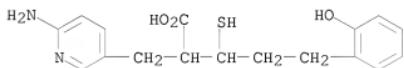
RN 637300-53-9 CAPLUS
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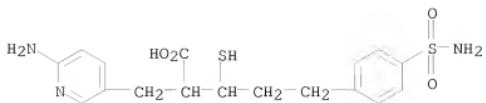
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 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[4-(cyanomethyl)phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



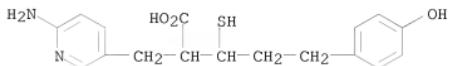
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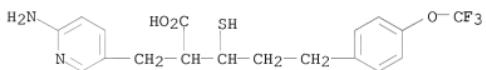
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 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[4-(aminosulfonyl)phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



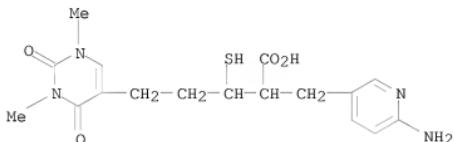
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 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(4-hydroxyphenyl)-1-mercaptopropyl]- (CA INDEX NAME)



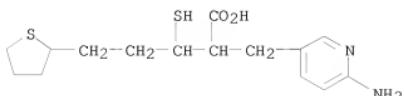
RN 637300-59-5 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercpto-3-[4-(trifluoromethoxy)phenyl]propyl]- (CA INDEX NAME)



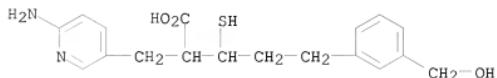
RN 637300-60-8 CAPLUS
 CN 5-Pyrimidinepentanoic acid, α -[(6-amino-3-pyridinyl)methyl]-1,2,3,4-tetrahydro- β -mercaptopro-1,3-dimethyl-2,4-dioxo- (CA INDEX NAME)



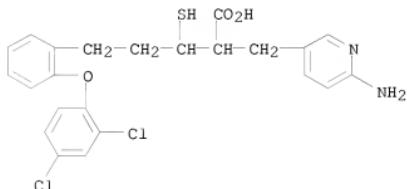
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 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercpto-3-(tetrahydro-2-thienyl)propyl]- (CA INDEX NAME)



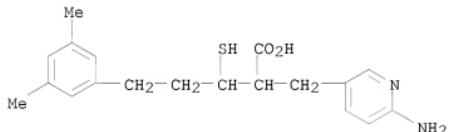
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 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-(hydroxymethyl)phenyl]-1-mercaptopropyl]-(CA INDEX NAME)



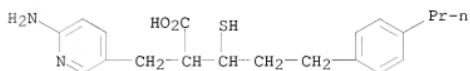
RN 637300-63-1 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[2-(2,4-dichlorophenoxy)phenyl]-1-mercaptopropyl]-(CA INDEX NAME)



RN 637300-64-2 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(3,5-dimethylphenyl)-1-mercaptopropyl]-(CA INDEX NAME)



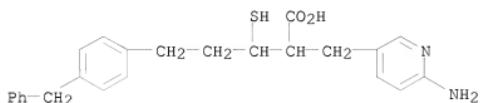
RN 637300-65-3 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercpto-3-(4-propylphenyl)propyl]-(CA INDEX NAME)



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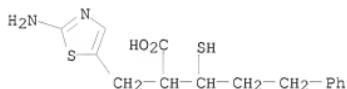
10/923, 271

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[4-(phenylmethyl)phenyl]propyl]- (CA INDEX NAME)



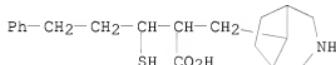
RN 637300-67-5 CAPLUS

CN 5-Thiazolepropanoic acid, 2-amino- α -(1-mercaptopro-3-phenylpropyl)- (CA INDEX NAME)



RN 637300-68-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane-8-propanoic acid, α -(1-mercaptopro-3-phenylpropyl)- (CA INDEX NAME)



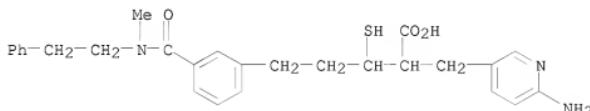
RN 637300-70-0 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(methyl(2-phenylethyl)amino)carbonyl]phenyl]propyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

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CRN 637300-69-7

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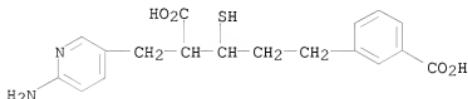


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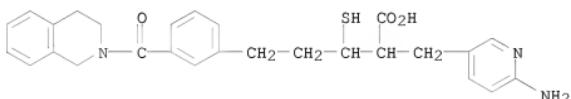
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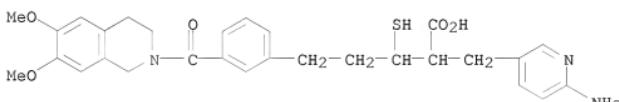
RN 637300-71-1 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-(3-carboxyphenyl)-1-mercaptopropyl]- (CA INDEX NAME)



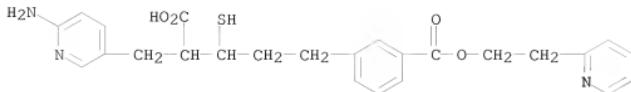
RN 637300-72-2 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(3,4-dihydro-2(1H)-isoquinolinyl)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



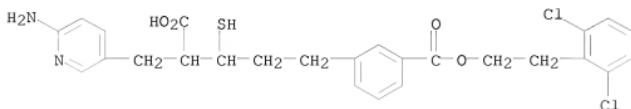
RN 637300-73-3 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



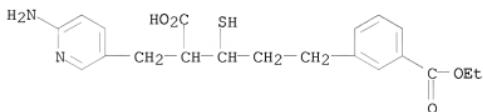
RN 637300-74-4 CAPLUS
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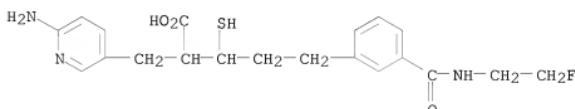
RN 637300-75-5 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[2-(2,6-dichlorophenoxy)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



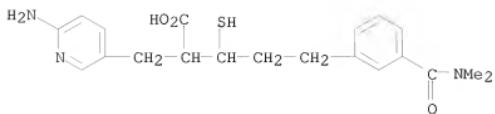
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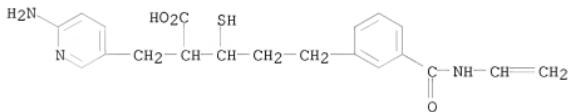
RN 637300-77-7 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(2-fluoroethyl)amino]carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



RN 637300-78-8 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(dimethylamino)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



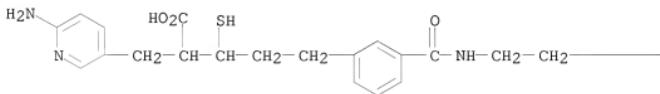
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CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(ethenylamino)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)

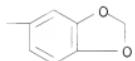
RN 637300-80-2 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(2-(1,3-benzodioxol-5-yl)ethyl)amino]carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)

PAGE 1-A

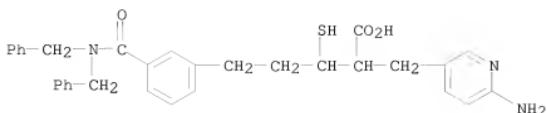


PAGE 1-B

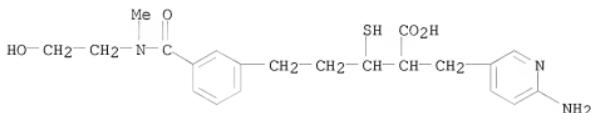


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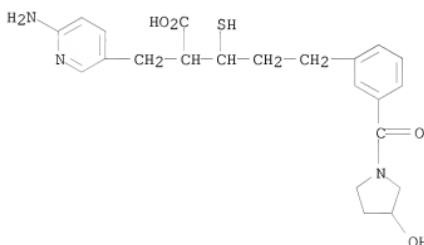
CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[[bis(phenylmethyl)amino]carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)



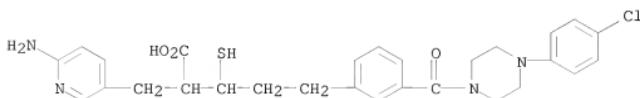
RN 637300-82-4 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(2-hydroxyethyl)methylamino]carbonylphenyl]-1-mercaptopropyl]- (CA INDEX NAME)

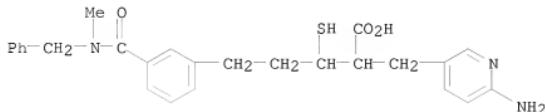
RN 637300-83-5 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(3-hydroxy-1-pyrrolidinyl)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)

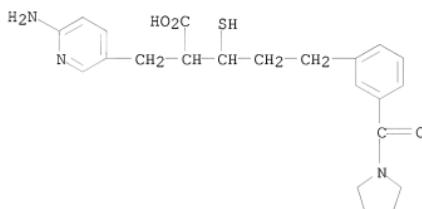
RN 637300-84-6 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(4-(4-chlorophenyl)-1-piperazinyl)carbonyl]phenyl]-1-mercaptopropyl]- (CA INDEX NAME)

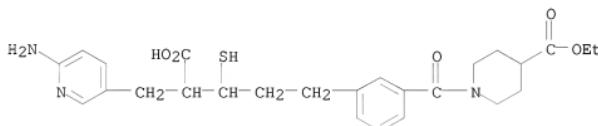
RN 637300-85-7 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(methyl(phenylmethyl)amino)carbonyl]phenyl]propyl]- (CA INDEX NAME)

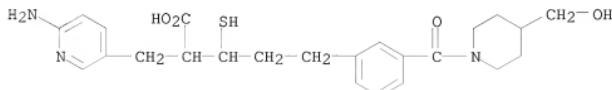
RN 637300-86-8 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-(1-pyrrolidinylcarbonyl)phenyl]propyl]- (CA INDEX NAME)

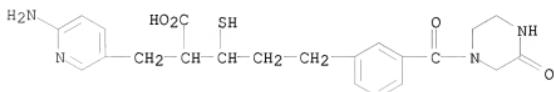
RN 637300-87-9 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(4-(ethoxycarbonyl)-1-piperidinyl)carbonyl]phenyl]1-mercaptopropyl]- (CA INDEX NAME)

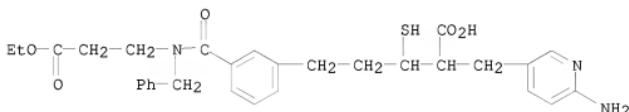
RN 637300-88-0 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(4-(hydroxymethyl)-1-piperidinyl)carbonyl]phenyl]1-mercaptopropyl]- (CA INDEX NAME)

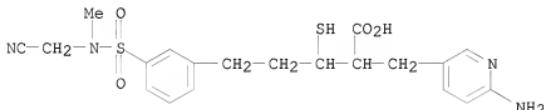
RN 637300-89-1 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-(3-oxo-1-piperazinyl)carbonyl]phenyl]propyl- (CA INDEX NAME)



RN 637300-90-4 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(3-ethoxy-3-oxopropyl)(phenylmethyl)amino]carbonyl]phenyl]-1-mercaptopropyl- (CA INDEX NAME)

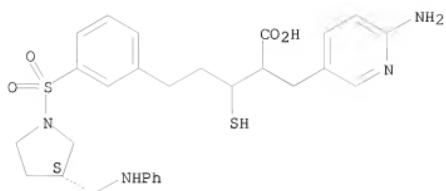


RN 637300-91-5 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[3-[3-[(cyanomethyl)methylamino]sulfonyl]phenyl]-1-mercaptopropyl- (CA INDEX NAME)

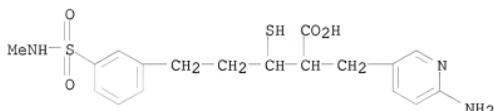


RN 637300-92-6 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(3S)-3-[(phenylamino)methyl]-1-pyrrolidinyl]sulfonyl]phenyl]propyl- (CA INDEX NAME)

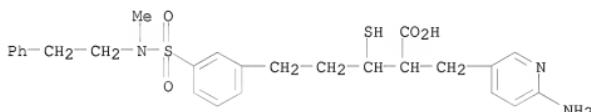
Absolute stereochemistry.



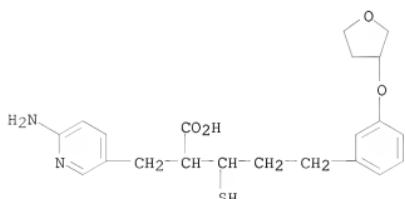
RN 637300-93-7 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(methylamino)sulfonyl]phenyl]propyl]- (CA INDEX NAME)

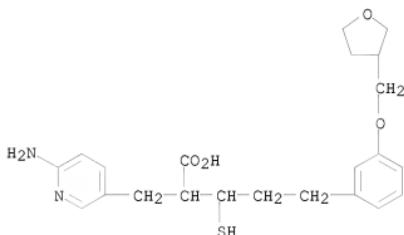
RN 637300-94-8 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(methyl(2-phenylethyl)amino)sulfonyl]phenyl]propyl]- (CA INDEX NAME)

RN 637300-95-9 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(tetrahydro-3-furanyl)oxy]phenyl]propyl]- (CA INDEX NAME)

RN 637300-96-0 CAPLUS
 CN 3-Pyridinepropanoic acid, 6-amino- α -[1-mercaptopro-3-[3-[(tetrahydro-3-furanyl)methoxy]phenyl]propyl]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:790475 CAPLUS
 DOCUMENT NUMBER: 133:349842
 TITLE: Preparation of mercapto-substituted carboxylic acids as carboxypeptidase U inhibitors
 INVENTOR(S): Linschoten, Marcel; Polla, Magnus; Svensson, Peder
 PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.
 SOURCE: PCT Int. Appl., 106 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000066557	A1	20001109	WO 2000-SE834	20000503
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2371213	A1	20001109	CA 2000-2371213	20000503
AU 2000047902	A	20001117	AU 2000-47902	20000503
AU 771760	B2	20040401		
BR 2000010257	A	20020213	BR 2000-10257	20000503
EP 1180098	A1	20020220	EP 2000-930001	20000503
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200103153	T2	20020422	TR 2001-3153	20000503

JP 2002543184	T 20021217	JP 2000-615388	20000503
HU 2002002876	A2 20030128	HU 2002-2876	20000503
HU 2002002876	A3 20050728		
EE 200100574	A 20030217	EE 2001-574	20000503
EE 4490	B1 20050615		
NZ 515062	A 20040430	NZ 2000-515062	20000503
RU 2244708	C2 20050120	RU 2001-128159	20000503
TW 232105	B 20050511	TW 2000-89108400	20000503
CN 1263739	C 20060712	CN 2000-809482	20000503
US 7071175	B1 20060704	US 2000-600661	20000720
IN 2001MN01293	A 20070706	IN 2001-MN1293	20011017
MX 2001011055	A 20020604	MX 2001-11055	20011030
ZA 2001008968	A 20030905	ZA 2001-8968	20011030
NO 2001005383	A 20011221	NO 2001-5383	20011102
NO 321377	B1 20060502		
KR 755152	B1 20070904	KR 2001-714011	20011102
IN 2005MN00676	A 20051007	IN 2005-MN676	20050627
PRIORITY APPLN. INFO.:		SE 1999-1573	A 19990503
		WO 2000-SE834	W 20000503
		IN 2001-MN1293	A3 20011017

OTHER SOURCE(S): MARPAT 133:349842

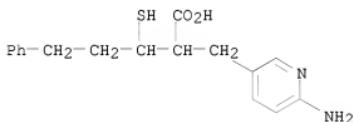
AB The compds. R1XCR2R3YR4 [R1 = alkyl, cycloalkyl, heterocyclyl, etc.; R2 = H, acyl, acylamino, alkyl, alkylcarbamoyl, alkylothio, alkoxy, aroyl, etc.; R3 = CO2R5, SO(OR5), etc.; R4 = SH, SCOalkyl, SCOaryl; X = O, S, SO, SO2, C(Z)2, N(Z), NR6SO2, SO2NR6, NR6CO, CONR6; Y = CZ2, H, alkyl, aryl, cycloalkyl heterocyclyl], which inhibit carboxypeptidase U (no data), were prepared. E.g., 3-(2-aminothiazol-5-yl)-2-mercaptopmethypropionic acid hydrochloride was prepared

IT 305328-80-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of mercapto-substituted carboxylic acids as carboxypeptidase U inhibitors)

RN 305328-80-7 CAPLUS

CN 3-Pyridinepropanoic acid, 6-amino- α -(1-mercaptop-3-phenylpropyl)-, hydrochloride (1:1) (CA INDEX NAME)



● HCl